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(21) International Application Number: PCT/GB99/04232 (22) International Filing Date: 14 December 1999 (14.12.99) (30) Priority Data: 60/112,217 14 December 1998 (14.12.98) US 9919676.8 19 August 1999 (19.08.99) GB (71) Applicant (for all designated States except US): THE UNIVERSITY OF DUNDEE [GB/GB]; 11 Perth Road, Dundee DD1 4HN (GB). (72) Inventors; and (75) Inventors/Applicants (for US only): COHEN, Philip [GB/GB]; Inverbay II, Invergowrie, Dundee DD2 5DG (GB). KOBAYASHI, Takayasu [JP/GB]; 83 Fort Street, Broughty Ferry, Dundee DD5 2AA (GB). DEAK, Maria [HU/GB]; 18 Forth Place, Dundee DD2 4HT (GB). (74) Agent: MILES, John, S.; Eric Potter Clarkson, Park View House, 58 The Ropewalk, Nottingham NG1 5DD (GB).	(81) Designated States: JP, US, European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE). Published <i>With international search report. Before the expiration of the time limit for amending the claims and to be republished in the event of the receipt of amendments.</i>									
(54) Title: METHODS										
<table style="margin: auto; border: none;"> <tr> <td style="text-align: right; padding-right: 20px;">SGK</td> <td style="text-align: center;"> ²⁵⁶ TTST<u>T</u>FCGTPEYLAPE.....⁴²²FLGFS<u>S</u>YAPP </td> </tr> <tr> <td style="text-align: right; padding-right: 20px;">PKBα</td> <td style="text-align: center;"> ³⁰⁸ TMKT<u>T</u>FCGTPEYLAPE.....⁴⁷³FPQFS<u>S</u>YSAS </td> </tr> <tr> <td style="text-align: right; padding-right: 20px;">p70 S6K</td> <td style="text-align: center;"> ²²⁹ VTH<u>T</u>FCGTIEYMAPE.....³⁸⁹FLGFT<u>T</u>YVAP </td> </tr> <tr> <td style="text-align: right; padding-right: 20px;">PKCδ</td> <td style="text-align: center;"> ⁵⁰⁷ RAST<u>T</u>FCGTPDYIAPE.....⁶⁶⁴FAGFS<u>S</u>FVNP </td> </tr> </table>			SGK	²⁵⁶ TTST<u>T</u>FCGTPEYLAPE.....⁴²²FLGFS<u>S</u>YAPP	PKBα	³⁰⁸ TMKT<u>T</u>FCGTPEYLAPE.....⁴⁷³FPQFS<u>S</u>YSAS	p70 S6K	²²⁹ VTH<u>T</u>FCGTIEYMAPE.....³⁸⁹FLGFT<u>T</u>YVAP	PKCδ	⁵⁰⁷ RAST<u>T</u>FCGTPDYIAPE.....⁶⁶⁴FAGFS<u>S</u>FVNP
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(57) Abstract <p>A method of activating serum and glucocorticoid-induced protein kinase (SGK) is provided wherein the SGK is phosphorylated. The SGK may be phosphorylated by PDK1 and/or a preparation containing PDK2 activity. A method of identifying a compound that modulates the activity of SGK is provided, wherein the activity of SGK is measured by measuring the phosphorylation by SGK of a polypeptide comprising an amino acid sequence corresponding to the consensus sequence (Arg/Lys; preferably Arg)-X-(X/Arg)-X-X-(Ser/Thr)-Z wherein X indicates any amino acid, X/Arg indicates any amino acid, with a preference for arginine, and Z indicates that the amino acid residue is preferably a hydrophobic residue. The SGK may be activated by phosphorylation.</p>										